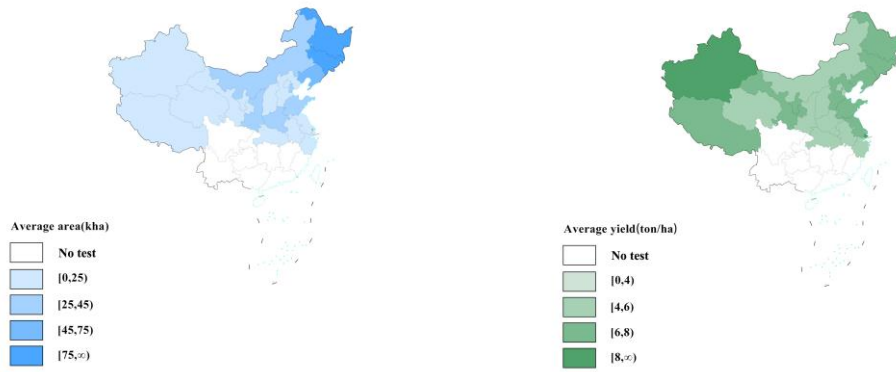


Appendix



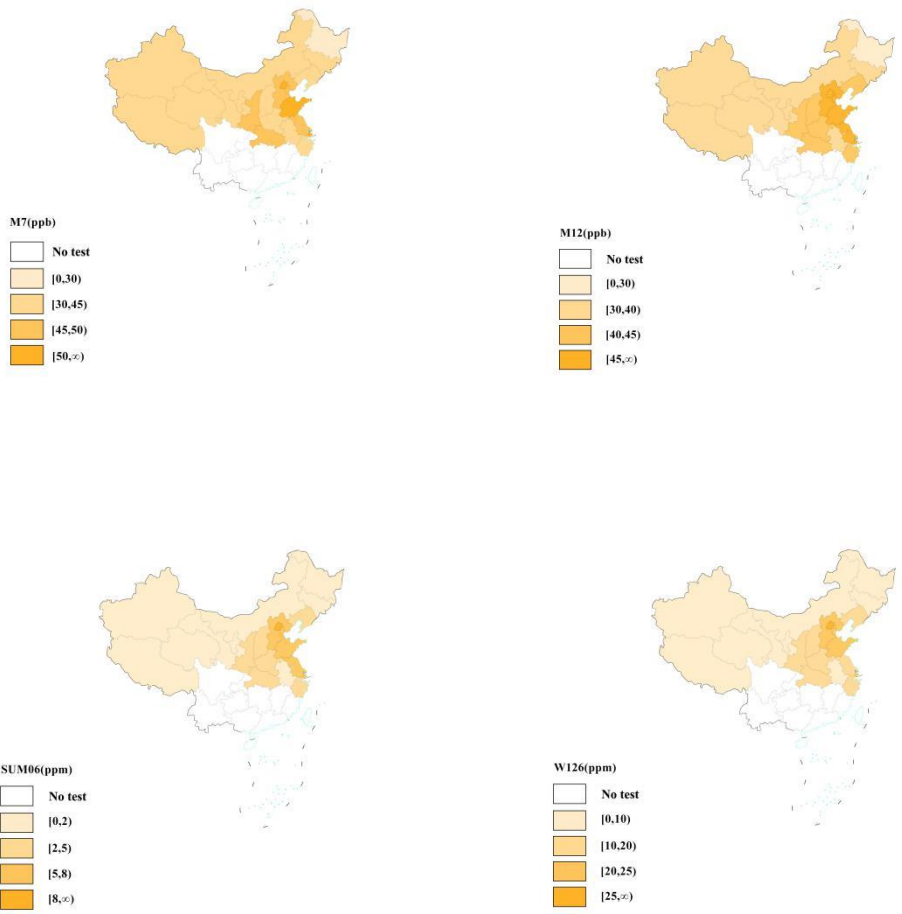
Appendix A Average planted area and yield of maize in 2013-2015

As we have mentioned before, AOT40 and SUM06 are both the accumulation index for ozone. The major difference is that AOT40 requires typical range of light intensity. However, as we could not obtain the data of light intensity, we selected daily sampling data from 9:00 to 16:00 to make them as close as possible to the real AOT40 measurement. For comparison, Table A1 presents the results of the baseline model (See Table 2) using SUM06 instead of AOT40. We find the results are not much different.

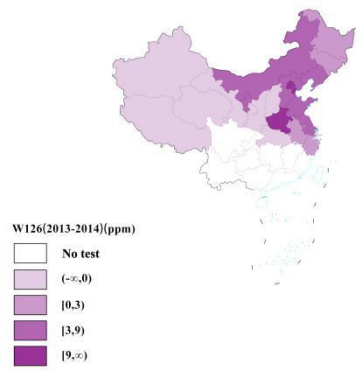
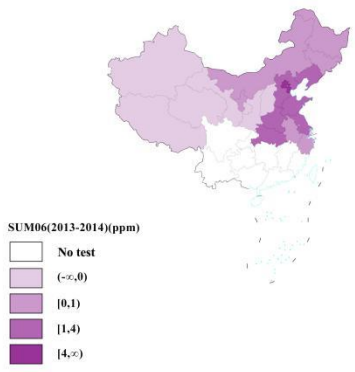
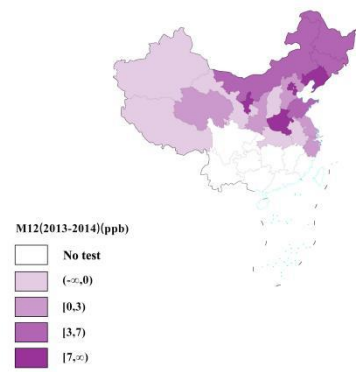
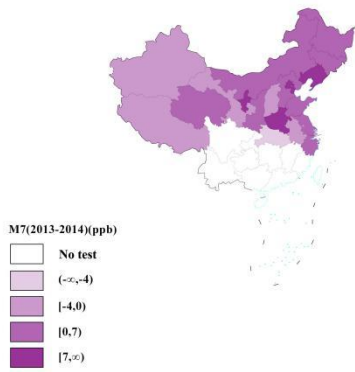
Appendix B Basic results using SUM06

VARIABLES	(1) Fixed Effect(FE)	(2) FE,Spatial Correlation	(3) FE,First Order
SUM06(ppm)	-0.0057** (0.0026)	-0.0056*** (0.0021)	-0.0056*** (0.0021)
Maize sown area(1000 ha)	-0.0046*** (0.0003)	-0.0047*** (0.0002)	-0.0047*** (0.0002)
Lag maize price(yuan/kg)	0.0458 (0.0739)	0.0584 (0.0640)	0.0456 (0.0622)
Production index	-0.0002 (0.0050)	-0.0013 (0.0043)	-0.0011 (0.0042)
Precipitation(decimeter)	0.0750*** (0.0162)	0.0743*** (0.0135)	0.0750*** (0.0134)
Precipitation squared	-0.0056*** (0.0016)	-0.0055*** (0.0013)	-0.0056*** (0.0013)
GDD squared (8-32°C)	-0.0605 (0.1500)	-0.0608 (0.1280)	-0.0668 (0.1250)
GDD (8-32°C)	0.0133 (0.5190)	0.0536 (0.4420)	0.0462 (0.4330)
GDD (34+°C)	0.0034 (0.0074)	0.0024 (0.0061)	0.0032 (0.0060)
Year fixed effect	YES	YES	YES
Lambda		0.149*** (0.0412)	0.0646** (0.0265)
Number of county	880	880	880

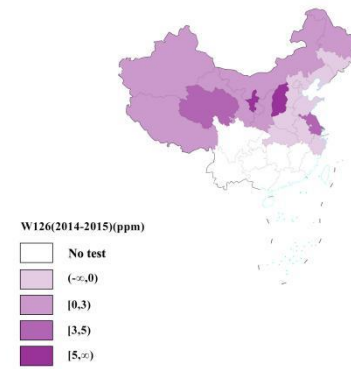
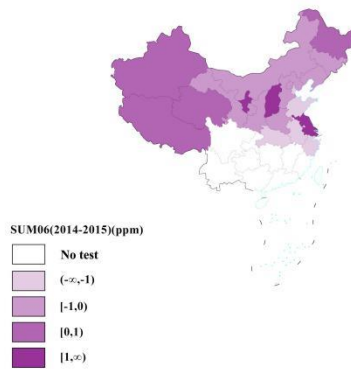
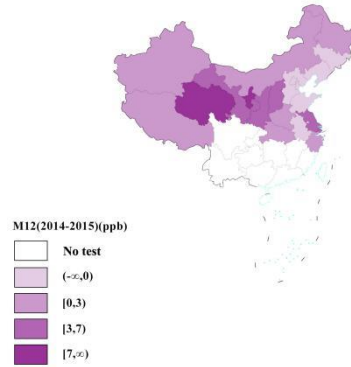
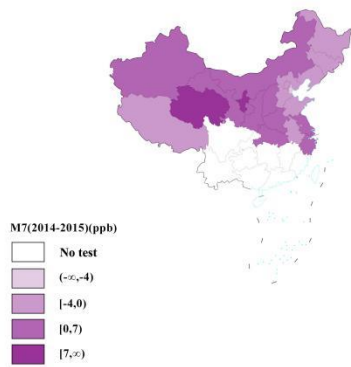
Notes: Significance codes: * 10% level, ** 5% level, *** 1% level. Standard errors are in parentheses.



Appendix C Average ozone concentrations in China in 2013-2015 measured by M7, M12, SUM06, and W126



Appendix D Ozone concentration variations measured by M7, M12, SUM06, and W126 (2013-2014)



Appendix E Ozone concentration variations measured by M7, M12, SUM06, and W126 (2014-2015)

Appendix F Standardized coefficients from Table 4

	Variable	Coefficient	SD of independent variable	SD of dependent variable	Standardized coefficient
Table 4 colum (3)	AOT40	0.0058	3.8432	2.1010	0.0106
	PM10	0.0004	29.4396	2.1010	0.0056
Table 4 colum (4)	AOT40	0.0058	3.8432	2.1010	0.0106
	PM2.5	0.0010	14.4981	2.1010	0.0069
